(12) INTERNATIONAL APPLICATION PUBLISHED UNDER THE PATENT COOPERATION TREATY (PCT)

(19) World Intellectual Property Organization International Bureau





(43) International Publication Date 18 December 2003 (18.12.2003)

PCT

(10) International Publication Number WO 03/105007 A1

(51) International Patent Classification7:

G06F 15/16

(21) International Application Number: PCT/US03/17096

(22) International Filing Date: 30 May 2003 (30.05.2003)

(25) Filing Language:

English

(26) Publication Language:

English

(30) Priority Data: 60/386,638

6 June 2002 (06.06.2002) US

- (71) Applicant (for all designated States except US): THOM-SON LICENSING S.A. [FR/FR]; 46, Quai A. Le Gallo, F-92648 Boulogne (FR).
- (72) Inventors; and
- (75) Inventors/Applicants (for US only): VERMA, Shaily [IN/IN]; A-305 Glengate, Hiranandani Gardens, Powai, 400076 Mumbai (IN). WANG, Charles, Chuanming [US/US]; 1504 Spearmint Circle, Jamison, PA 18929 (US).
- (74) Agents: TRIPOLI, Joseph, S. et al.; c/o Thomson Licensing, Inc., Two Independence Way, Princeton, NJ 08540 (US).

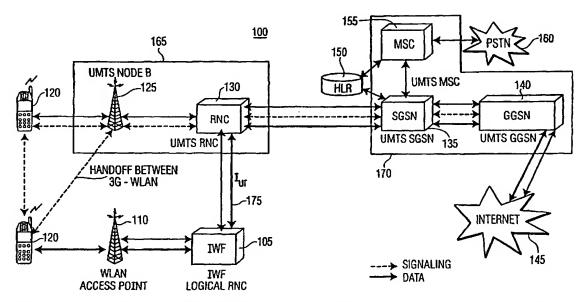
- (81) Designated States (national): AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NI, NO, NZ, OM, PH, PL, PT, RO, RU, SC, SD, SE, SG, SK, SL, TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, VC, VN, YU, ZA, ZM, ZW.
- (84) Designated States (regional): ARIPO patent (GH, GM, KE, LS, MW, MZ, SD, SL, SZ, TZ, UG, ZM, ZW), Eurasian patent (AM, AZ, BY, KG, KZ, MD, RU, TJ, TM), European patent (AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HU, IE, IT, LU, MC, NL, PT, RO, SE, SI, SK, TR), OAPI patent (BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG).

Published:

- with international search report
- before the expiration of the time limit for amending the claims and to be republished in the event of receipt of amendments

For two-letter codes and other abbreviations, refer to the "Guidance Notes on Codes and Abbreviations" appearing at the beginning of each regular issue of the PCT Gazette.

(54) Title: INTERWORKING FUNCTION (IWF) AS LOGICAL RADIO NETWORK CONTROLLER (RNC) FOR HYBRID COUPLING IN AN INTERWORKING BETWEEN WLAN AND A MOBILE COMMUNICATIONS NETWORK



(57) Abstract: There is provided a method for supporting an interworking between a Wireless Local Area Network (WLAN) (110) and a mobile communications network (20). The interworking is facilitated by an InterWorking Function (IWF) (105) disposed on a WLAN (110) side of the interworking. The method comprises the step of connecting the WLAN (110) to the mobile communications network (20) by employing the IWF (105) as an auxiliary radio network controller for the mobile communications network (20), in particular, a Drift Radio Network Controller (DRNC) in a UMTS network (130).

03/105007 A1